UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,275	01/03/2007	Yasutaka Kono	NEC DP-1058	4793
27667 7590 12/30/2008 HAYES SOLOWAY P.C.		8	EXAMINER	
3450 E. SUNRI	SE DRIVE, SUITE 14	0	SUITTE, BRYANT P	
TUCSON, AZ 85718			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			12/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/596,275	KONO ET AL.				
Office Action Summary	Examiner	Art Unit				
	BRYANT SUITTE	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>09 Se</u>	entember 2008					
<i>,</i> —	, _					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under L.	x parte Quayle, 1955 C.D. 11, 40	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) <u>1,3 and 6-18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 2.4 and 5 is/are rejected.						
· <u> </u>						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>07 June 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
- · · · · · · · · · · · · · · · · · · ·	•	•				
Applicant may not request that any objection to the o		• •				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. ☐ Certified copies of the priority documents	s have been received					
		on No				
2. Certified copies of the priority documents	• •					
3. Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application						
b) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application Paper No(s)/Mail Date 6/12/06. 6) ☐ Other:						
1 apor 110(0)/miaii bate <u>0/12/00.</u>						

Application/Control Number: 10/596,275 Page 2

Art Unit: 1795

FUEL CARTRIDGE, FUEL CELL AND PRTABLE ELECTRICAL APPLIANCE INCLUDING FUEL CELL

Examiner: Suitte 10/596,275 December 14, 2008

DETAILED ACTION

- 1. The request for reconsideration filed on September 9, 2008. Claim 2 was amended. Claim 1 and 3 are cancelled. Claims 6-18 are withdrawn.
- 2. The text of those sections of Title 35, U.S.C. code not include in this action can be found in the prior Office Action issued on July 10, 2008.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al. (US 2004/0013928) in view of Hirsch et al. (US 2004/0209133).

Regarding claim 2, Yamauchi discloses a fuel cell system comprising a fuel container (64) and a partition board (61) comprising a gas liquid separator membrane (67) disposed in part or whole of partition board. See paragraph 89 and figures 6, 7a, 7b, and 7c. The container (64) separates the liquid fuel (60b) from fuel gas (60a). See

Application/Control Number: 10/596,275

Art Unit: 1795

paragraph 89. However, Yamauchi does not disclose a shutter disposed within the fuel cartridge.

Page 3

Hirsch discloses a shutter (400) that is disposed within a fuel tank near the methanol delivery film (separation film). See paragraph 57. Therefore, it would have been obvious to one having ordinary skill in the art to utilize the shutter in the fuel container of Yamauchi because Hirsch discloses the shutter manages the fuel flow in the fuel cell system. See paragraph 56.

Furthermore, it is the position of the examiner that the shutter adjusts a degree of exposure of the gas-liquid separation membrane is inherent, given that the shutter located in the fuel container disclosed by Yamauchi and Hirsch and the instant application operates in a similar function as the instant application. See paragraph 56.

Regarding claim 4, Yamauchi discloses a pipe (discharge port) (66) that discharge gas to the outside. See paragraph 89

Regarding claim 5, Yamauchi discloses a check valve (65) (amount adjusts mechanism) that discharges gas to the outside through the pipe (66) (discharge port). See paragraph 89 and figure 6.

Response to Arguments

5. Applicant's arguments with respect to claims 2, 4 and 5 have been considered but are most in view of the new ground(s) of rejection.

Application/Control Number: 10/596,275 Page 4

Art Unit: 1795

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRYANT SUITTE whose telephone number is (571)270-3961. The examiner can normally be reached on Mon-Fri 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BRYANT SUITTE/ Examiner, Art Unit 1795

/Dah-Wei D. Yuan/ Supervisory Patent Examiner, Art Unit 1795